*Overview*

## Models

HP A7760 Single Radio 802.11a/b/g Access Point JD015A

## Key features

- PoE supply power/data via Category 5/6 data cables
- WPA2 AES, TKIP, WEP packet encryption
- MAC address authentication/filtering
- Up to 4 SSIDs/8 different security settings
- WDS bridge and repeater configuration

## Product overview

The HP A7760 Single Radio 802.11a/b/g Access Point is a dual-band, user-configurable PoE wireless solution for small- and medium-sized enterprises. Offering radio support at IEEE 802.11a or 802.11b/g, the A7760 cost-effectively and securely extends mobile access to wired network resources or creates full-featured networks onsite, remotely, or in temporary locations. The A7760 provides ultra-fast speeds of up to 108 Mbps in turbo mode, and superior long-range connectivity with eXtended range (XR) technology, supporting up to 64 wireless users per AP and leaving plenty of room for growth.

## Features and benefits

### Management

- Enterprise network management: is supported by the Web-based, enterprise-class HP Intelligent Management Center (IMC) network management platform and Wireless Service Management (WSM), which effectively integrate traditionally disparate management tools into one easy-to-use interface
- Automatic radio power adjustment: automatic AP power adjustment features analyze user access status in real time, adapting power requirements based on environmental changes and providing high-quality user access signal coverage
- Automatic radio channel adjustment: intelligent channel switching and real-time interference detection provide the allocation of a high-quality channel to each AP, reducing adjacent channel interference
- Load balancing: intelligent load-sharing analyzes the locations of wireless clients in real time, providing high-quality client throughput regardless of location or number of online sessions
- Rogue AP detection: regular scans for rogue APs help confirm that the network is secure
- Secure controller management: securely manages the controller from a single location with IMC or any other SNMP management station; controller supports SNMPv3 as well as SSH and SSL for secure CLI and Web management
- RADIUS accounting: logs all session details that can be used to generate usage reports or interface to a billing system
- AAA server: uses embedded AAA server or external AAA server

### Performance

- Local Switching for best user throughput: centralized forwarding and control architecture facilitates network deployment of virtual LAN (VLAN), access privileges, network management and quality of service (QoS) for wireless users
- Redundancy: Redundant controllers gurantee the highest availability for mission critical wireless applications
- Fast roaming: supports Layer 3 roaming and fast roaming, satisfying the most demanding voice service requirements
- High performance: robust switching capacity and wire-speed processing provide powerful forwarding capacity for medium and large enterprise-size wireless LANs (WLANs)
- QoS and Multimedia: IEEE 802.11e Wi-Fi Multimedia (WMM) wireless QoS standard—when combined with wired QoS policies—provides end-to-end QoS, delivering different wireless channel competitiveness for different services

*Overview*

Standards

- Latest high-speed wireless standards: when used with IEEE 802.11n-based APs, provides wireless access six times that of traditional IEEE 802.11a/b/g networks, resulting in expanded coverage and more efficient support for wireless multimedia applications
- Dual Stack: IPv4 and IPv6 support future-proofs the wireless network against obsolescence

Security

- Secure user isolation: virtual AP services enable the network administrator to provide specific services for different user groups, improving bandwidth and system resources and simplifying network maintenance and management
- Secure access by location: location AP-based user access control helps ensure that wireless users can access and authenticate only to preselected APs, enabling system administrators to control the locations where a wireless user can access the network
- Secure access control by user: media access control (MAC)-based and IEEE 802.1X network access control centralize wireless security through existing Remote Authentication Dial-In User Service (RADIUS) servers to protect the network from unauthorized user access
- Secure access control: multiple authentication modes, including 802.1x, Web portal, MAC address and Point to Point Protocol over Ethernet (PPPoE) certify user identity and network integrity
- Endpoint Admission Defense (EAD): integrated wired and wireless EAD helps ensure that only wireless clients who comply with mandated enterprise security policies access the network, reducing threat levels by infected wireless clients and improving the overall security of the wireless network
- WPA2: the latest, toughest standards-based security—with Wi-Fi Protected Access 2 (WPA2), Advanced Encryption Standard (AES) encryption, Temporal Key Integrity Protocol (TKIP), and Wired Equivalency Protocol (WEP) for legacy clients—protects the network from unauthorized user access

Scalability

- Pay as you grow: license upgrades allow you to increase support for additional access points without the need to buy additional costly hardware and use additional valuable space in a chassis
- High Density Controllers: Supports up to 640 Access Points on a single blade providing the highest density controller in the industry
- Ease of Deployment: these wireless interface cards use the backplane for all network and management communications. There is no need for external network connections of powrer connections.

Warranty and support

- 3-year warranty: with advance replacement and next-business-day delivery (available in most countries)
- Electronic and telephone support: limited electronic and telephone support is available from HP; refer to: www.hp.com/networking/warranty for details on the support provided and the period during which support is available
- Software releases: refer to: www.hp.com/networking/warranty for details on the software releases provided and the period during which software releases are available for your product(s)

*Technical Specifications*

HP A7760 Single Radio 802.11a/b/g Access Point (JD015A)

| | | |
|---|---|---|
| Ports | 1 RJ-45 autosensing 10/100 PoE port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3af PoE); Media Type: Auto-MDIX; Duplex: half or full | |
| AP characteristics | Radios | Single (a/b/g) |
| | Radio operation modes | Client access, Local mesh, RF security |
| | AP operation modes | Autonomous and controlled |
| | Wi-Fi Alliance Certification* | a/b/g Wi-Fi Certified |
| | * HP access points and access devices are Wi-Fi Certified, providing our customers with the assurance that these products have met and passed the rigorous interoperability testing preformed by the Wi-Fi Alliance Organization. See the Specifications section of this series for more information. | |
| Physical characteristics | Dimensions | 6.5(d) x 3.2(w) x 1.2(h) in. (16.51 x 8.13 x 3.05 cm) |
| | Weight | .4 lb. (0.18 kg), Fully loaded |
| | Full configuration weight | .4 lb. (0.18 kg) |
| | Enclosure | Indoor |
| Mounting | Wall/desktop Mount, Screw kit, Quick install guide | |
| Environment | Operating temperature | 14°F to 104°F (-10°C to 40°C) |
| | Operating relative humidity | 5% to 95%, noncondensing |
| | Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) |
| | Nonoperating/Storage relative humidity | 5% to 95%, noncondensing |
| Wireless interface | Microsoft® Internet Explorer 5.5 or higher; Netscape Navigator 6.0 or higher | |
| Electrical characteristics | Maximum power rating | 6 W |
| | Antenna Connector | (2) RP-SMA dual band |
| | Antenna | Dual antenna diversity |
| | Number of internal antennas | 1 |
| | Number of external antennas | 2 |
| Frequency band and Operating channels | FCC (US & Canada) | 2.4 - 5 GHz (11 channels) |
| Radio | FCC Part 15.247; FCC Part 15.407 (US); EN 300 328; EN 301-489-1; EN 301-489-17; EN 301 893 (EU); RSS-210, Issue 7; RSS-Gen, Issue 2 | |
| Safety | UL 60950-1; IEC 60950-1; EN 60601-1-2; FCC Part 15, Subpart B; FCC Bulletin OET 65; FCC Part 15.247, 15.209, 15.207; FCC Oart 15 Subpart E | |
| Emissions | ANSI C63.4; EN 60601-1-2; EN 301 489-1; EN 301 489-17; EN 50385; FCC Part 15, Subpart B; ANSI C63.4 2003; CFR 47 FCC Part 15.247, 15.205, 15.207, 15.209; EN 300 328; EN 301 893; FCC Part 15 Subpart E Section 15.207, 15.209, 15.407; FCC Bulletin OET 65; FCC 1.1310 and IC Safety Code 6; RSS-Gen (Issue 2, 2007); RSS-210 (Issue 7, 2007); CFR 47; FCC Part 15 | |
| Medical | EN60601-1-2 | |
| RF Exposure | EN 50385; FCC Part 15.247; RSS-210; EN 300-328 | |

*Technical Specifications*

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|---|---|
| Notes | Accessories include Antennas: 3cwe591,3cwe592,3cwe597 |
| Services | Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office. |
| Radio characteristics: 802.11 a or or 802.11b/g | Modulation: Direct Sequence spread spectrum |
| Standards and protocols | General protocols<br>IEEE 802.3 Type 10BASE-T<br>IEEE 802.3ab 1000BASE-T<br>IEEE 802.3af Power over Ethernet<br>IEEE 802.3i 10Base-T<br>IEEE 802.3u 100BASE-X<br><br>Mobility<br>IEEE 802.11a High Speed Physical Layer in the 5 GHz Band<br>IEEE 802.11b Higher-Speed Physical Layer Extension in the 2.4 GHz Band<br>IEEE 802.11d Global Harmonization<br>IEEE 802.11g Further Higher Data Rate Extension in the 2.4 GHz Band<br>IEEE 802.11i Medium Access Control (MAC) Security Enhancements<br><br>Security<br>IEEE 802.1X Port Based Network Access Control<br>WPA (Wi-Fi Protected Access) |

*Accessories*

| | | |
|---|---|---|
| HP A7760 Single Radio 802.11a/b/g Access Point accessories | Cables | |
| | HP X270 Ultra Low Loss 1.8m (6ft) Antenna Cable | JD902A |
| | HP X270 Ultra Low Loss 6.1m (20ft) Antenna Cable | JD903A |
| | HP X270 Ultra Low Loss 15m (50ft) Antenna Cable | JD904A |
| | HP X270 RSMA to SMA 15cm (6in) Antenna Cable | JD905A |
| | Wireless Antenna | |
| | HP 6/8dBi DualBand Omni Antenna | JD907A |
| | HP 3/4dBi Dual Band Ceiling Mount Antenna | JD908A |
| | HP 6/8dBi Dual Band Hallway Antenna | JD910A |

To learn more, visit: www.hp.com/networking

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